



ARSENIC

Agent Overview:	Arsenic is a metal that can cause death if ingested at high levels. Lower levels of arsenic can cause nausea, vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet. Ingesting or inhaling low levels of inorganic arsenic- or high levels of organic arsenic- for prolonged periods can cause a darkening of the skin and the appearance of small "corns" or "warts" on the palms, soles, and torso.
Lab Specimen Submittal:	Authorization by Dr. Jane Getchell, Director DPHL, Christina Pleasanton, Deputy Director DPHL, or, Tara Lydick, Chemical Terrorism Coordinator
Type of Specimens Necessary for Testing:	<u>Urine:</u> 25mL-50mL screw-cap container <u>Whole blood:</u> <ul style="list-style-type: none">- Three, 5 or 7 mL purple-top (EDTA) tubes (vacuum fill only) AND- One, 5 or 7 mL gray-top or green-top (vacuum fill only) AND- Two empty urine cups and two empty blood tubes for each lot # submitted.
Packaging Instructions:	<u>Urine:</u> freeze specimen upon collection and ship on dry ice; label specimens and package individually; wrap with absorbent material. <u>Whole blood:</u> place filled tubes in a shipping rack for stability, wrap the tubes in absorbent material, and secure with tape. Place the packaged tubes in a secondary unbreakable container. Specimens may be shipped cold but <i>must not</i> be frozen. <u>All:</u> wrap sample containers and layers with tamper-proof, waterproof forensic evidence tape initialed by collector, being careful not to cover the sample labels. Ship to DPHL as Biological Substance, Category B (Packing Instruction 650).
Receiving Specimens at DPHL:	Authorized specimens are received at the rear (loading dock) entrance of the laboratory. Submitters must present ID and have proper forms completed.
Handling of Specimens:	Chain of custody procedures must be followed. Urine specimens should be frozen upon collection.
Reporting Results:	DPHL is a Qualified Trace and Toxic Metals Laboratory. Testing personnel will notify supervisor or Laboratory Director, Deputy Laboratory Director or Chemical Terrorism Coordinator. The Potential Exposure and Information Call Log and Information form will provide information for notification of testing results outside of the DPHL.
Contact Information:	Jane Getchell, DrPH, Director DPHL, 302-223-1520 (24/7 coverage)

24/7 Emergency Contact Number: 1-888-295-5156

Revised: 04/08